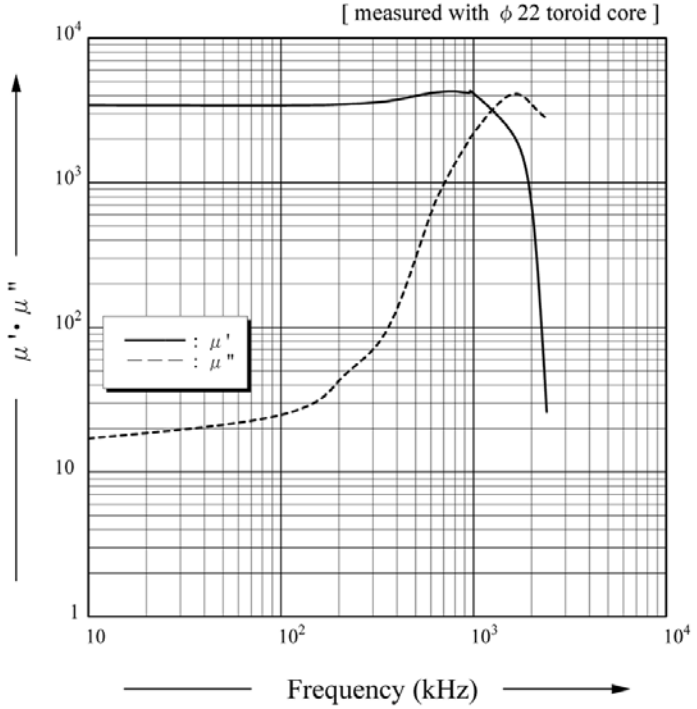
健全 C M Technology

Power Ferrite 3H Material

Parameter	Symbol	Conditions	℃	Value	Unit
Initial permeability	μ_i	F:10kHz B<0.25mT	23	3300±25%	—
Saturation flux density	Bs	F:10kHz H:800A/m	23 100	530 415	mT
Remanent flux density	Br	H→0 (from near saturation) f:10kHz	23 100	90 70	mT
Coercivity	Hc	B→0 (from near saturation) f:10kHz	23 100	9.5 7	A/m
Relative loss factor	$\tan\delta / \mu_i$	f:100kHz	23	<2	10^{-6}
Hysteresis material constant	η_B	f:10kHz B<1.5mT～3.0mT	23	<0.3	10^{-6}/mT
Relative temperature coefficient	α_F	f:10kHz B<0.25mT T:25～55℃		<2	10^{-6}/℃
Curie temperature	Tc	f:10kHz B<0.25mT		240	℃
Resistivity	ρ		23	5	Ωm
Density	d			4.85×10^3	kg/m^3
Power Loss	Pcv	25kHz-200mT	23 80 100 120	50 40 42 45	kW/m^3
		100kHz-200mT	23 80 100 120	340 295 305 350	kW/m^3
		200kHz-100mT	23 80 100 120	185 150 155 170	kW/m^3
		500kHz-50mT	23 80 100 120	220 200 205 230	kW/m^3

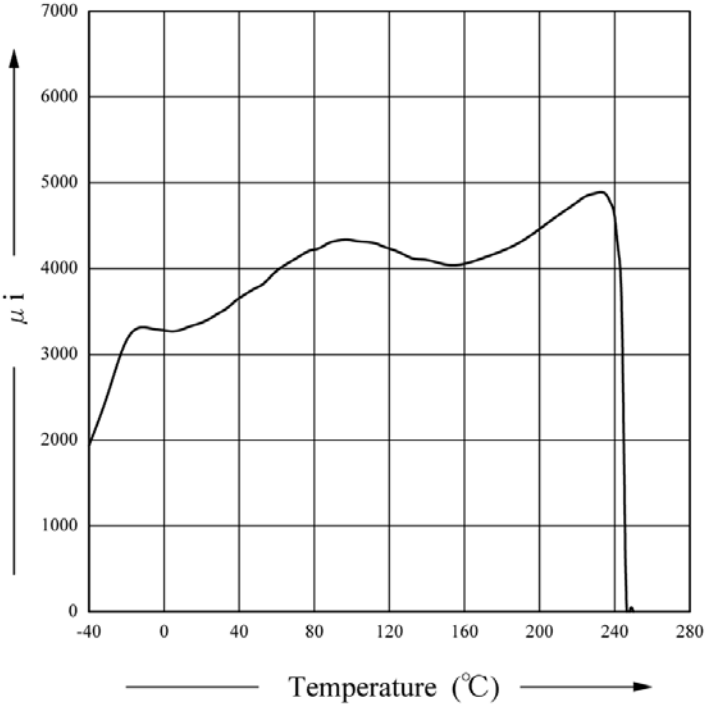
Complex Permeability vs. Frequency

[measured with ϕ 22 toroid core]



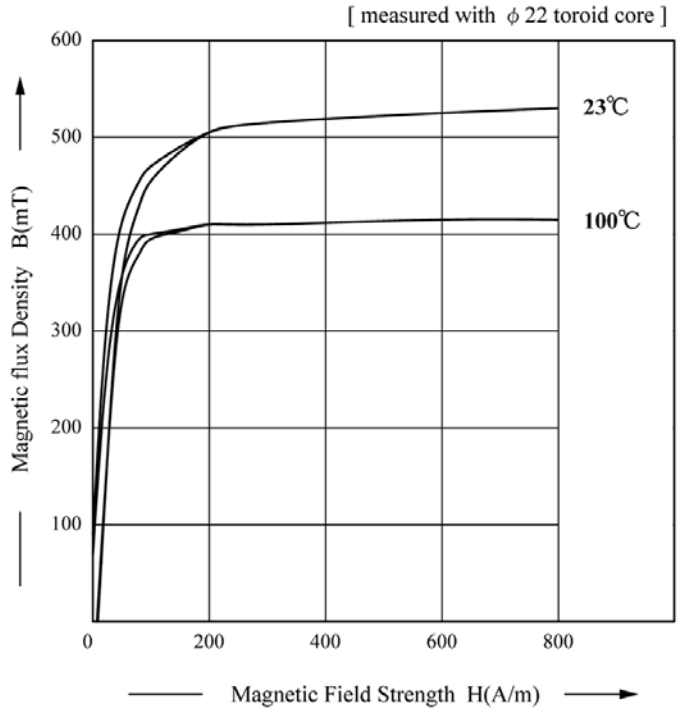
Initial Permeability (μ i) vs. Temperature

[measured with ϕ 22 toroid core]



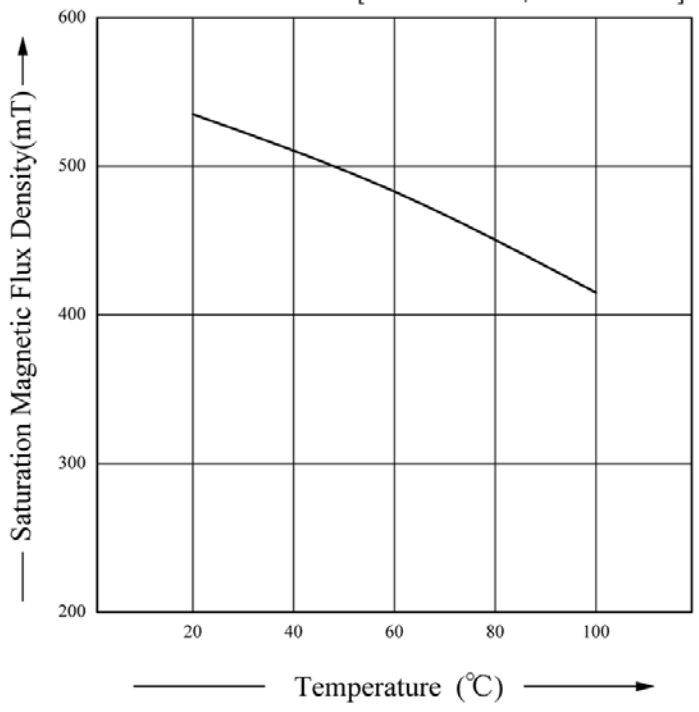
Dynamic Magnetization Curves

[measured with ϕ 22 toroid core]



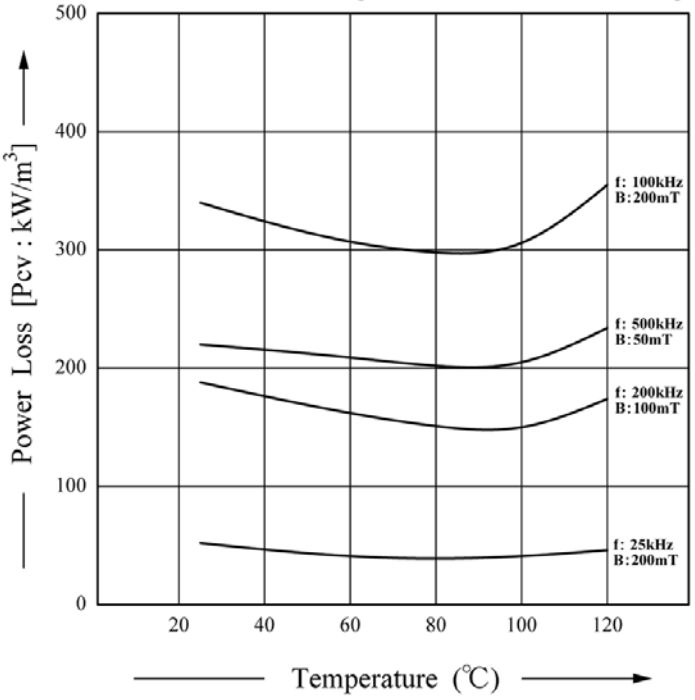
Saturation Magnetic Flux Density vs. Temperature

[measured with ϕ 22 toroid core]



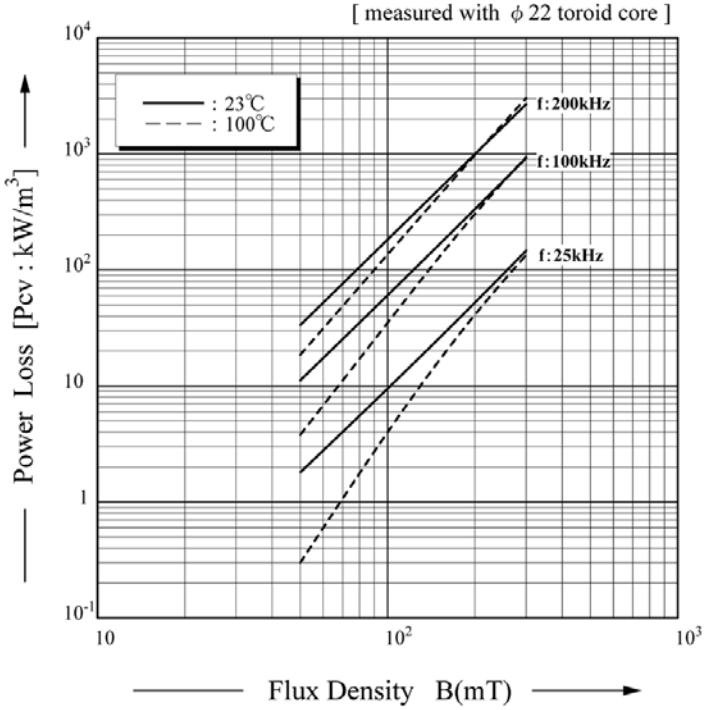
Power Loss (Pcv) vs. Temperature

[measured with ϕ 22 toroid core]



Power Loss (Pcv) vs. Flux Density

[measured with ϕ 22 toroid core]



Power Loss (Pcv) vs. Frequency

[measured with ϕ 22 toroid core]